

COUNTER-FLOW HEAT EXCHANGER FOR CERAMIC GAS GENERATOR

Abstract of Disclosure

A heat exchanger (E) for systems having a heat generating furnace (F) includes at least one heat exchanging arm (10) formed from an inner (12) and an outer (14) concentric tube with an inner (16) and outer (18) passageway separated by a common wall (20). The inner concentric tube (12) has a first end (22) with a fluid flow outlet (24) for discharging an exhaust fluid (26) and a second end (28) with a fluid flow inlet (30) for receiving an input (32) of the exhaust fluid. The outer concentric tube (14) has a first end (34) with a fluid flow (36) inlet for receiving an input of an intake (38) fluid flow and a second end (40) with a fluid flow outlet (42) for discharging the intake fluid (38). The exhaust fluid (26) flows through the inner concentric tube (12) in a direction substantially opposite to the intake fluid flow (38) through the heat exchanger arm (10).

